

power having a magnitude and power factor and AC voltage having a magnitude and a frequency thereto, and the engine having an adjustable engine speed, comprising:

- a generator control operatively connected to the engine for controlling operation thereof and operatively connected to the generator for controlling the AC power generated thereby;

- a synchronizer operatively connected to a generator control, the synchronizer monitoring the magnitude and frequency of the AC voltage of the utility source and the magnitude and frequency of the AC voltage generated by the generator; and

- a communications link for operatively connecting the generator control to a network;

wherein the generator control adjusts the magnitude of the AC voltage generated by the generator and adjusts the engine speed of the engine to vary the frequency of the AC voltage generated by the generator such that the magnitude and frequency of the AC voltage generated by the generation matches the magnitude and frequency of the AC voltage of the utility source.

13. (Twice Amended) A generator structure for generating AC power for a load, the load including a utility source which provides AC power having a magnitude and power factor and AC voltage having a magnitude and frequency, comprising:

- a generator connectable to the load, the generator generating AC power having a magnitude and a power factor and AC voltage having a magnitude and a frequency;

- an engine operatively connected to the generator for driving the generator, the engine having an adjustable engine speed;

- a generator control operatively connected to the engine for controlling operation thereof and operatively connected to the generator for controlling the AC power generated thereby, the generator control including a synchronizer for monitoring the magnitude and frequency of the AC voltage provided by the utility source and the magnitude and frequency of the AC voltage generated by the generator wherein the generator control adjusts the magnitude of the AC voltage generated by the generator and adjusts the engine speed of the engine to vary the frequency of the AC voltage generated by the generator such that the magnitude and frequency of the AC voltage

generated by the generator the magnitude and frequency of the AC voltage of the utility source;
and

a communications link for operatively connecting the generator control to a network.

Cancel claims 18 and 19.

Please add new claims 29 and 30, as follows:

29. (New) A control system for controlling operation of an engine-driven, electrical generator which generates AC power and AC voltage having a magnitude and a frequency for a load, the load being operatively connected to a utility source which provides AC power having a magnitude and power factor and AC voltage having a magnitude and a frequency thereto, and the engine having an adjustable engine speed, comprising:

a generator control operatively connected to the engine for controlling operation thereof and operatively connected to the generator for controlling the AC power generated thereby, the generator control including a volt-ampere-reactive (VAR) control for varying the power factor of the AC power generated by the generator to a predetermined value;

a synchronizer operatively connected to a generator control, the synchronizer monitoring the magnitude and frequency of the AC voltage of the utility source and the magnitude and frequency of the AC voltage generated by the generator; and

a communications link for operatively connecting the generator control to a network; wherein the generator control varies the magnitude and frequency of the AC voltage generated by the generator to match the magnitude and frequency of the AC voltage of the utility source.

30. A generator structure for generating AC power for a load, the load including a utility source which provides AC power having a magnitude and power factor and AC voltage having a magnitude and frequency, comprising:

a generator connectable to the load, the generator generating AC power having a magnitude and a power factor and AC voltage having a magnitude and a frequency;

an engine operatively connected to the generator for driving the generator, the engine having an adjustable engine speed;

a generator control operatively connected to the engine for controlling operation thereof and operatively connected to the generator for controlling the AC power generated thereby, the generator control including a volt-ampere-reactive (VAR) control for varying the power factor of the AC power generated by the generator;

the generator control including a synchronizer for monitoring the magnitude and frequency of the AC voltage provided by the utility source and the magnitude and frequency of the AC voltage generated by the generator such that the generator control the magnitude and frequency of the AC voltage generated by the generator [to match] the magnitude and frequency of the AC voltage of the utility source; and

a communications link for operatively connecting the generator control to a network.

REMARKS

Initially, it is noted that the Examiner has provided no basis for rejecting claims 23 and 27-28. For the reasons noted in applicant's response on November 11, 2002, it is believed that claims 23 and 27-28 are in proper form for allowance.